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	APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
	09/834,941	04/16/2001	Yoshihito Asao	Q63931 6657		
	7.	590 01/17/2002				
SUGHRUE, MION, ZINN,				EXAMINER		
		LVANIA AVENUE, N	.W.	TAMAI,	KARL I	
	WASHINGIO	N, DC 20037-3213		A DOWN DUTCH	21222211111222	

DATE MAILED: 01/17/2002

Please find below and/or attached an Office communication concerning this application or proceeding.

100		T =							
		Application No.	. '	plicant(s)					
	Office Action Summers	09/834,941		ASAO ET AL.					
Office Action Summary		Examiner		Art Unit					
	The MAU INC DATE of the assessment of the same	Tamai IE Karl		2834					
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply									
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). - Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b). Status									
1)⊠	Responsive to communication(s) filed on 19 N	November 2001 .							
2a) <u></u>	This action is FINAL . 2b)⊠ Th	is action is non-f	inal.						
3)[3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.								
Disposition of Claims									
4)⊠	4) Claim(s) 4 is/are pending in the application.								
4a) Of the above claim(s) is/are withdrawn from consideration.									
5)[5) Claim(s) is/are allowed.								
6)⊠ Claim(s) <u>4</u> is/are rejected.									
7)	7) Claim(s) is/are objected to.								
8) Claim(s) are subject to restriction and/or election requirement.									
Application Papers									
9) The specification is objected to by the Examiner.									
10)☐ The drawing(s) filed on is/are: a)☐ accepted or b)☐ objected to by the Examiner.									
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).									
11) ☐ The proposed drawing correction filed on is: a) ☐ approved b) ☐ disapproved by the Examiner.									
If approved, corrected drawings are required in reply to this Office action.									
•	he oath or declaration is objected to by the Exa	aminer.							
	nder 35 U.S.C. §§ 119 and 120								
_	13) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).								
•	a)⊠ All b)□ Some * c)□ None of:								
	1. Certified copies of the priority documents have been received.								
	2. Certified copies of the priority documents have been received in Application No. <u>09/313,640</u> .								
 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 									
14)∐ Ad	14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).								
a) ☐ The translation of the foreign language provisional application has been received. 15)☑ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.									
Attachment(s)									
2) Notice	of References Cited (PTO-892) of Draftsperson's Patent Drawing Review (PTO-948) ation Disclosure Statement(s) (PTO-1449) Paper No(s)	4) 5) 6) 		(PTO-413) Paper No(s) Patent Application (PTO-152)					

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DETAILED ACTION

Specification

1. The amended title, "Stator of AC Generator for Use in a Vehicle", of the invention is not descriptive. A new title is required that is clearly indicative of the invention to which the claims are directed, such as "Stator of AC Generator for Use in a Vehicle With Radially Aligned, Rectilinear Polymorphic Cross-Section Conductor Wires".

Claim Rejections - 35 USC § 102

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 3. The rejection of Claim 4 under 35 U.S.C. 102(b) is withdrawn.

Claim Rejections - 35 USC § 103

- 4. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 5. Claim 4 is rejected under 35 U.S.C. 103(a) as being unpatentable over Kurihashi et al.(Kurihashi)(JP 63-194,543) and Schorm et al.(Schorm)(US 5,341,561). Kurihashi teaches a cylindrical stator core 6 with teeth 7 and slots, a rectilinear (polymorphic) coil

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4 with a plurality of turns wound in rectilinear slots which protrude 4 from the end of the core where the rectilinear slots with a radial longitudinal orientation. Kurihashi teaches the coils taking up 80% of the slot space. Kurihashi teaches every aspect of the invention except the rectilinear coils aligned radially. Schorm teaches the equivalence of the wires aligned radially(figures 8 and 9) and circumferencially(figures 1-7). It would have been obvious to a person of ordinary skill in the art at the time of the invention that the coils of Kurihashi could be aligned radially instead of circumferentially because Schorm teaches the equivalence of the longitudinal axis being radial or circumferential, where it is within the ordinary skill in the art to choose between known equivalents, and because Schorm teaches the rectilinear windings can be bundled for assembly into the stator core.

6. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Karl I.E. Tamai whose telephone number is (703) 305-7066. The examiner can be normally contacted on Monday through Friday from 8:00 am to 4:00 pm. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Mr. Nestor Ramirez, can be reached at (703)308-1371. The facsimile number for the Group is (703)305-3432. Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the Group receptionist whose telephone number is (703) 308-0956.

Karl I Tamai PRIMARY PATENT EXAMINER January 15, 2002 Con Tomatan Change